

1183879 - R8 SDMS

HECLA Property adjacent to OMG/Apex
Location: about 20 southwest of St. George, Utah
Date: November 16, 1998
Photo Taken by: Donna K. Inman

This is one of the areas of storm water runoff on the HECLA property, adjacent to the waste pile. The OMG tungsten plant feedstock storage area is in the background. The white deposit is waste from the cement trucks that dumped the water during the construction of the tungsten plant.




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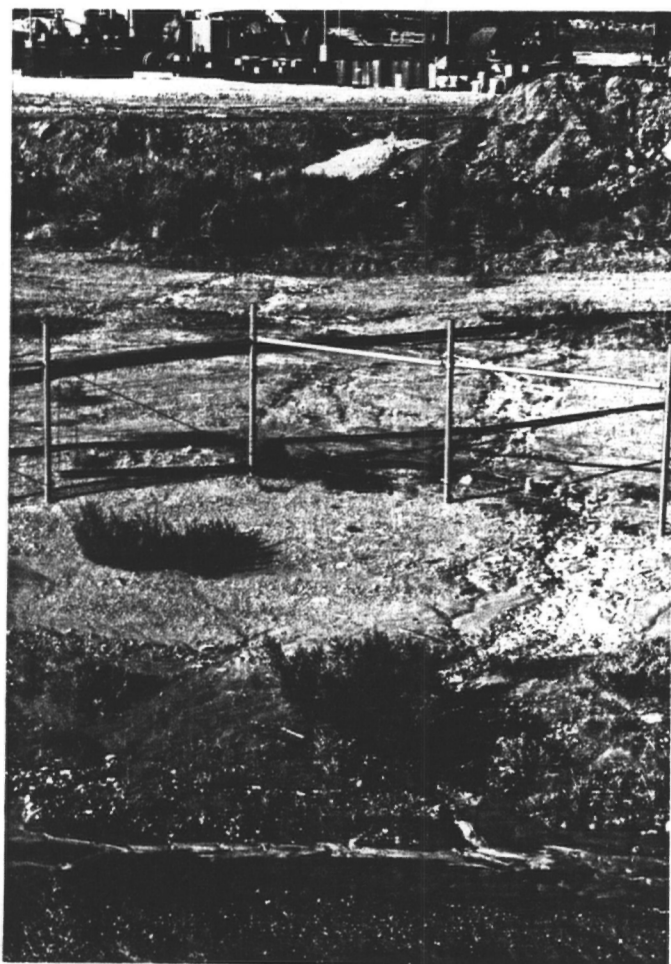
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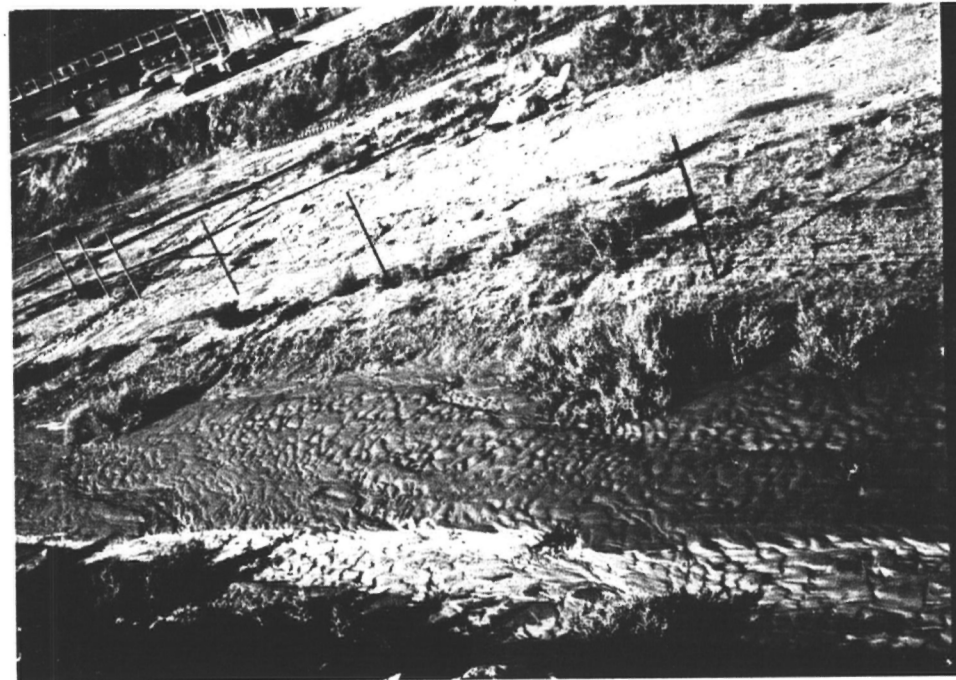
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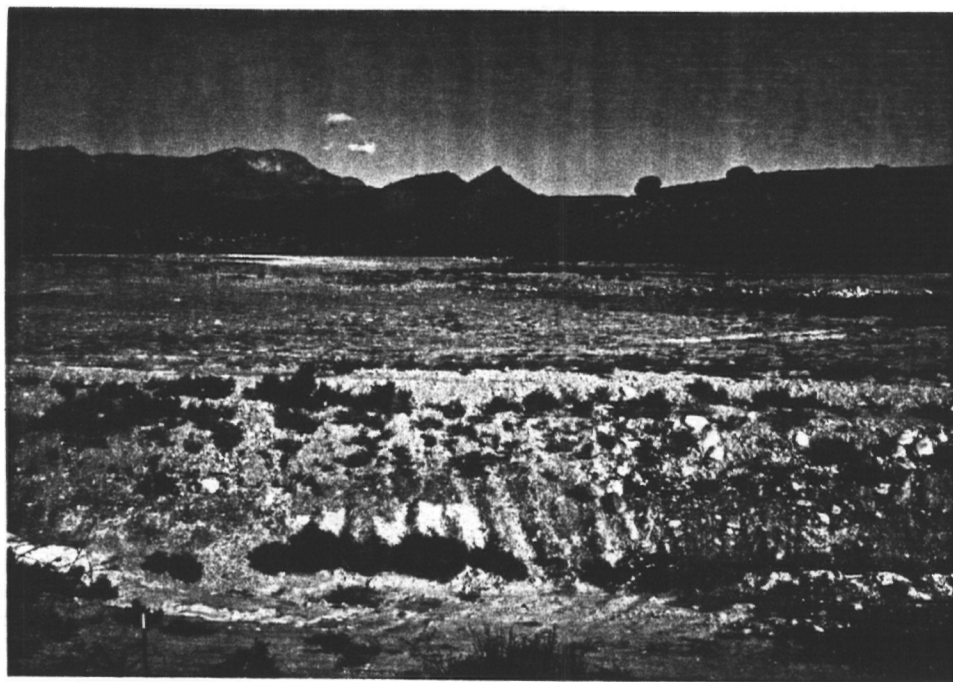
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This is one of the areas of storm water runoff on the HECLA property, adjacent to the waste pile. OMG storm water also flows through here, then back onto OMG property.



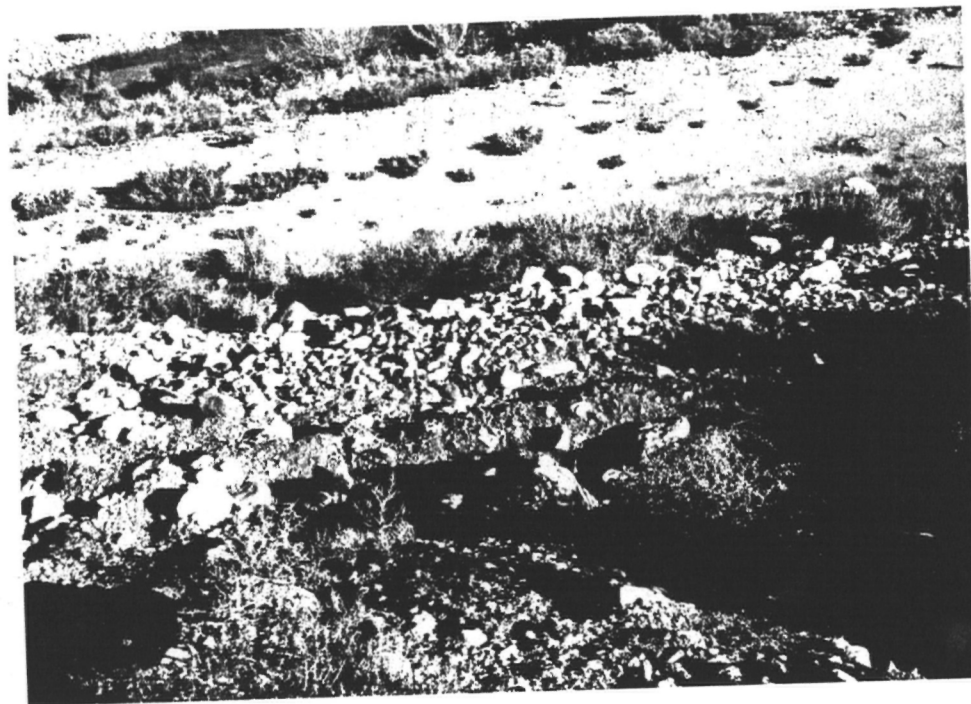
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This is the top of the waste pile. There were two or three areas where the water ponds on top of the waste pile.



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Areas of erosion around the perimeter of the waste pile.



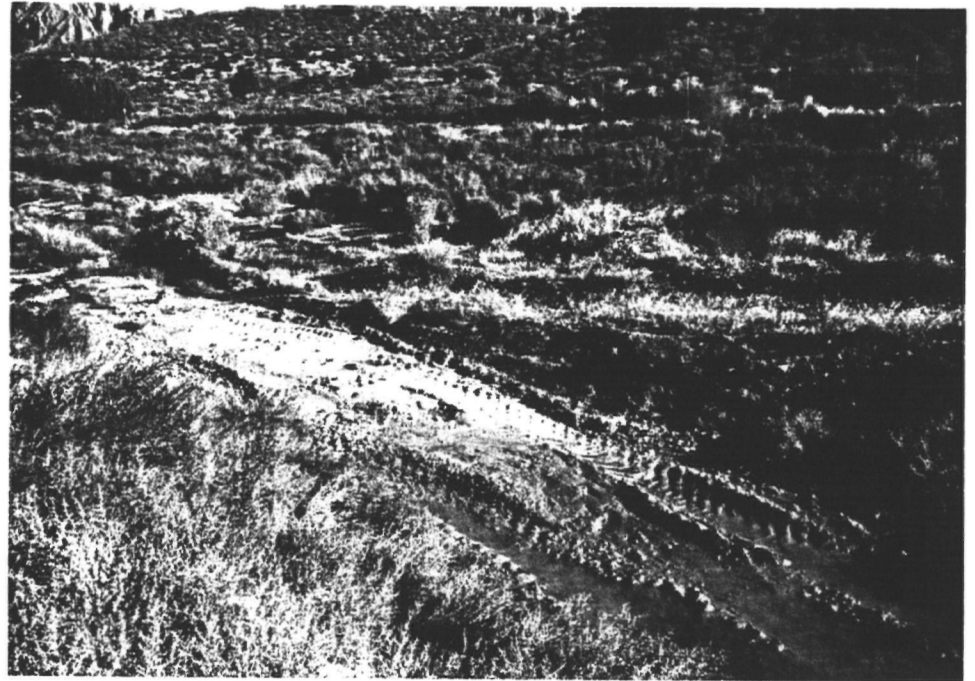
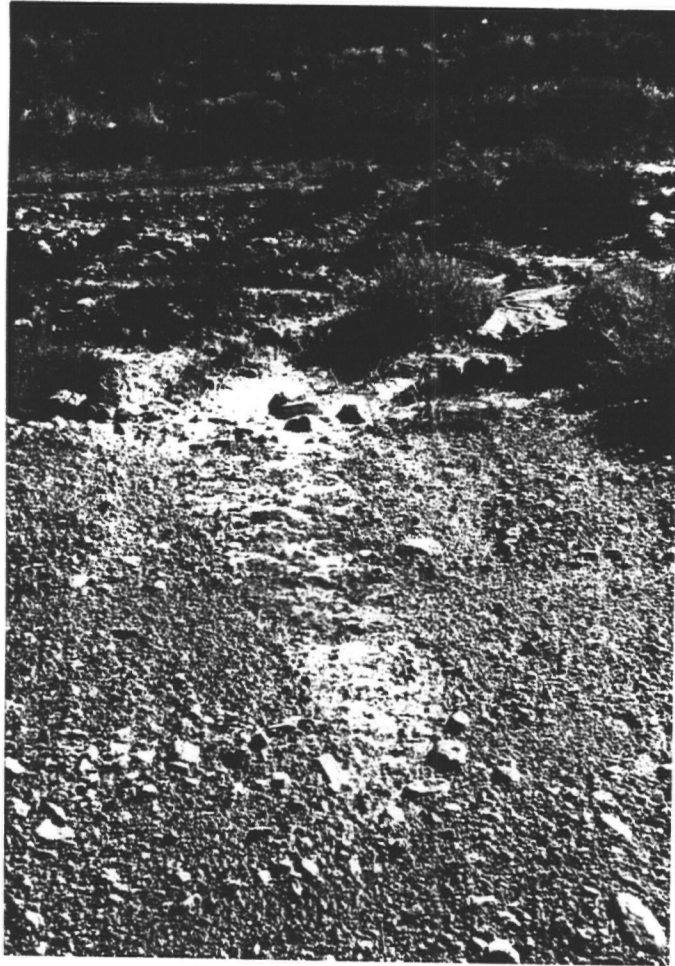
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This is the area of seepage on the northeast side of the waste pile. The seep created crystalized deposits down gradient.



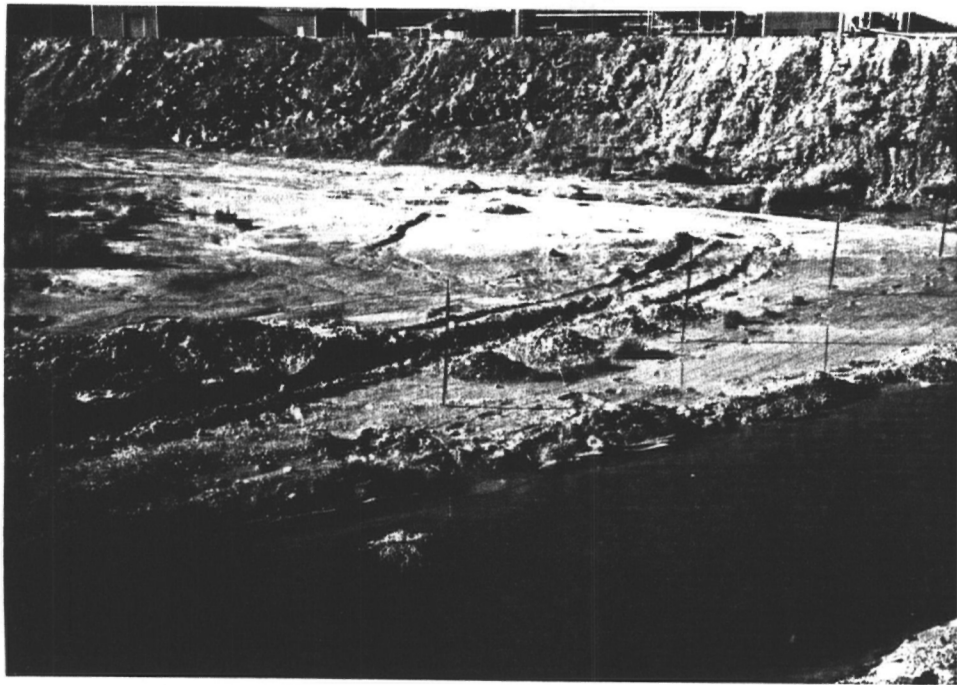
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Ditches dug on OMG/Apex property to try and divert storm water flow away from HECLA property. The far right is the leachate collection pond for HECLA. The standing waters in the foreground from previous weekend of rain according to the facility. The photo was taken from the top of the waste pile.



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This is the lined leachate collection pond for HECLA. The photo was taken from the top of the waste pile. The pond was very full and may have overflowed recently. The embankment in the background is the berm of Pond 2 at OMG/Apex.



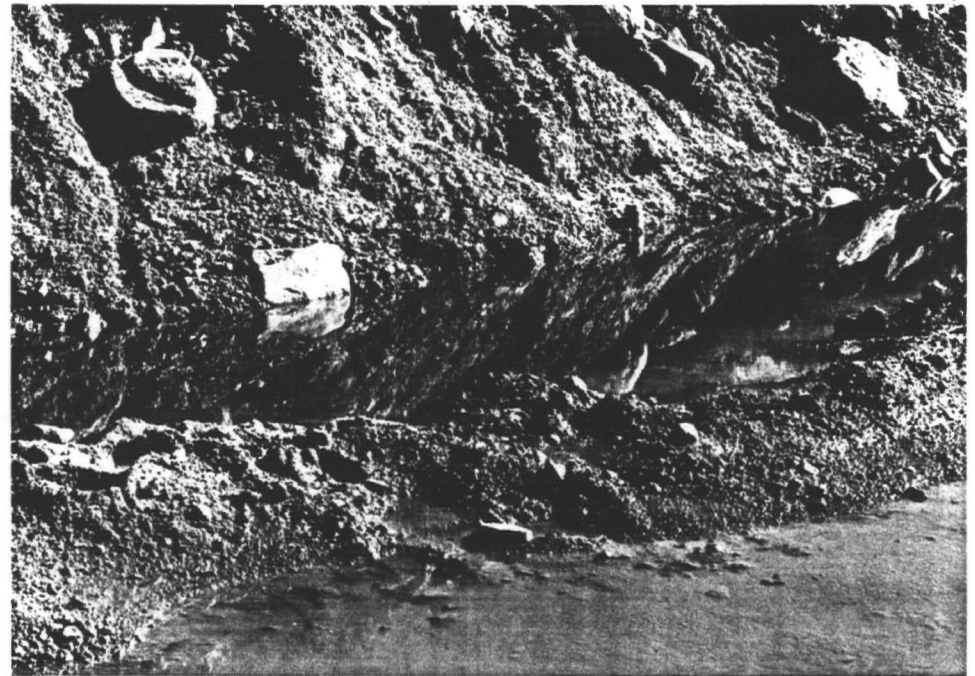
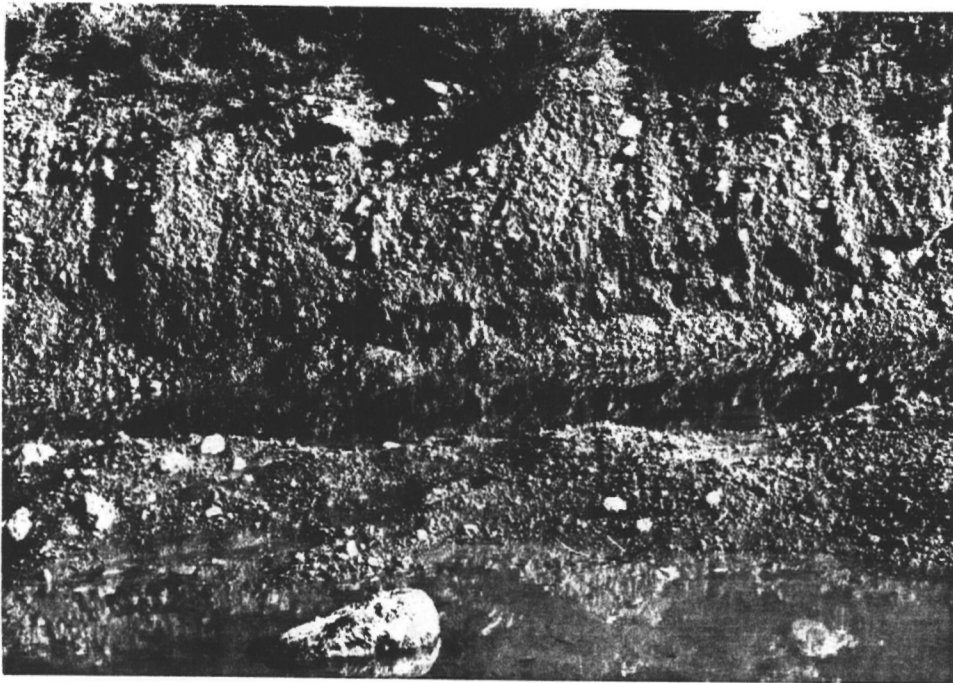
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This is the beginning of the leachate collection trench, on the southwest side of the waste pile. The HDPE lined trench collects water from the waste pile and routes it to the collection pond for evaporation.



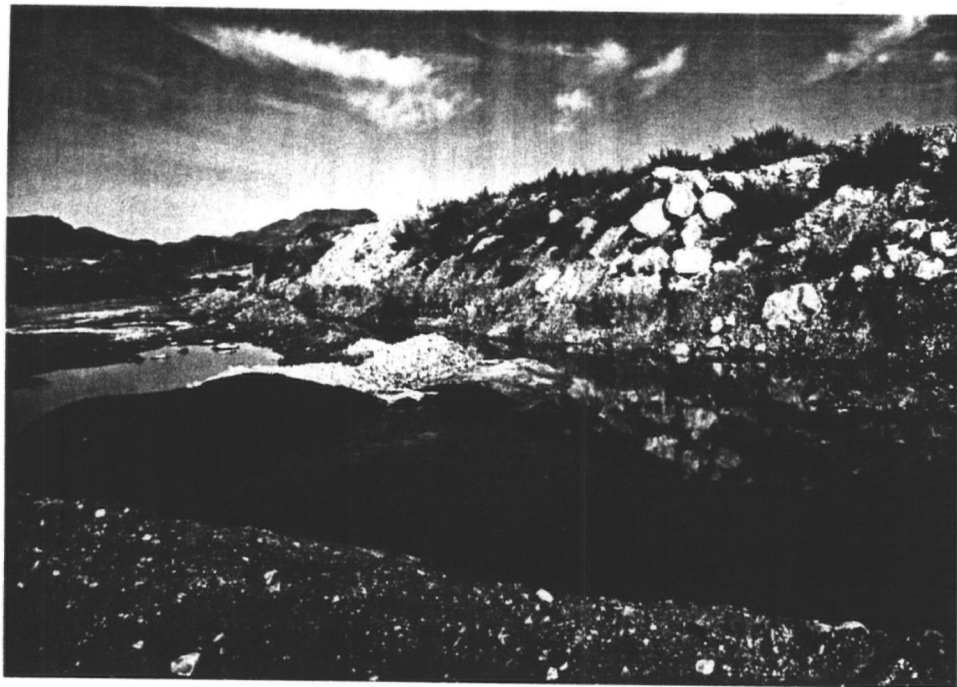
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These are two of the areas along the leachate collection trench where it appears that there may have been a discharge. These are low areas in the berm and the ground was saturated.



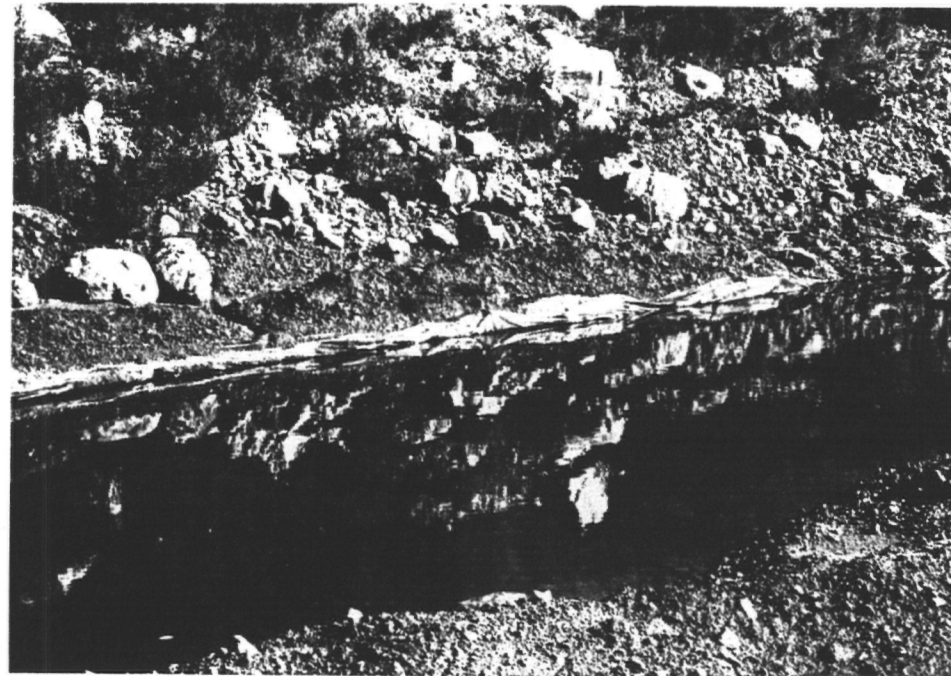
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This is the leachate collection pond. The HDPE lined pond collects water from the trench for evaporation. The pond was full and there was standing water adjacent to the pond and the trench. There may have been a discharge from the pond. These are low areas in the berm and the ground was saturated.



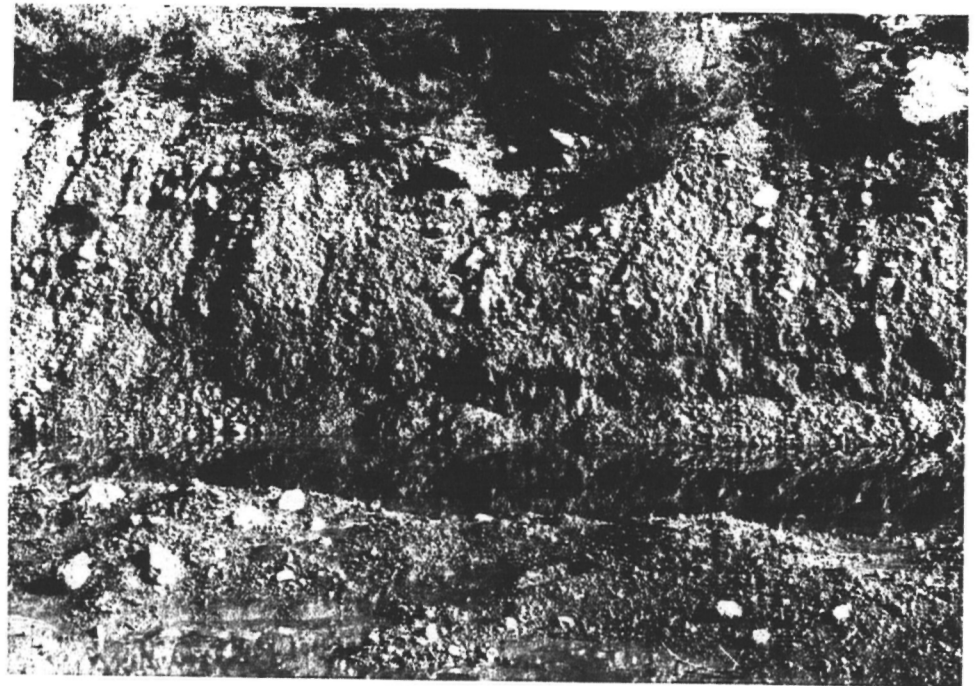
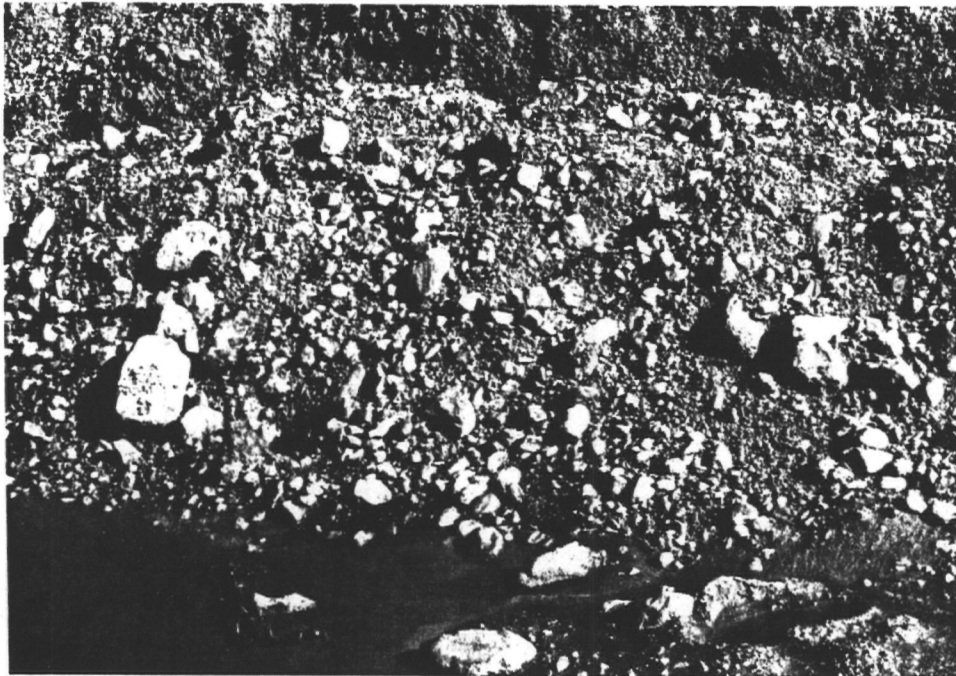
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These are two of the areas along the leachate collection trench where water appears to be leaching out of the waste pile into the HDPE lined collection trench.



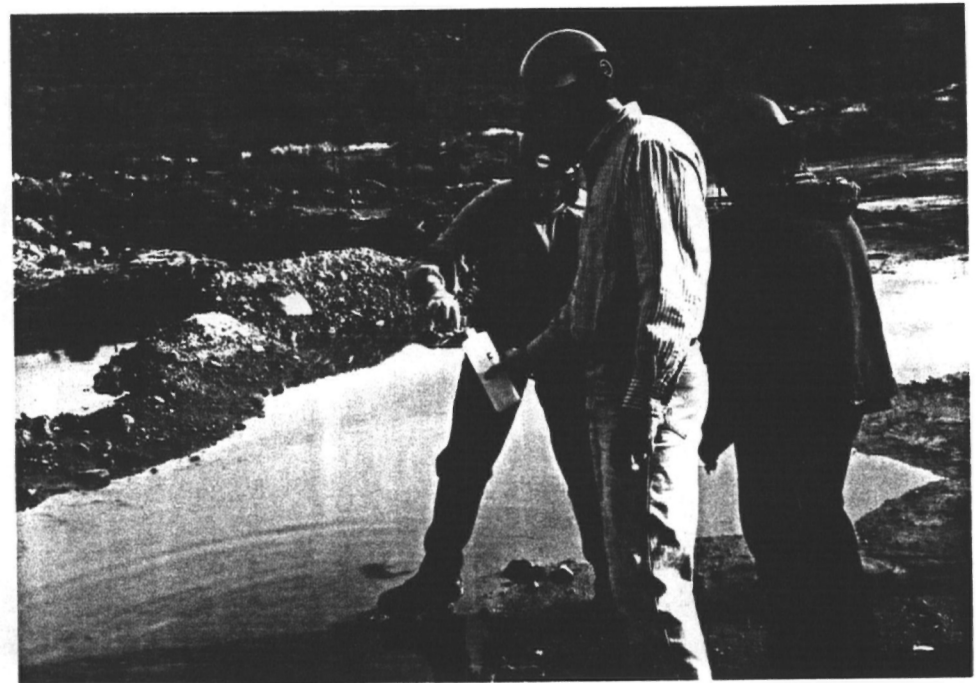
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This is the area of standing waters adjacent to the collection trench and evaporation pond. The evaporation pond liner is seen on the far right and the collection trench is in the background.



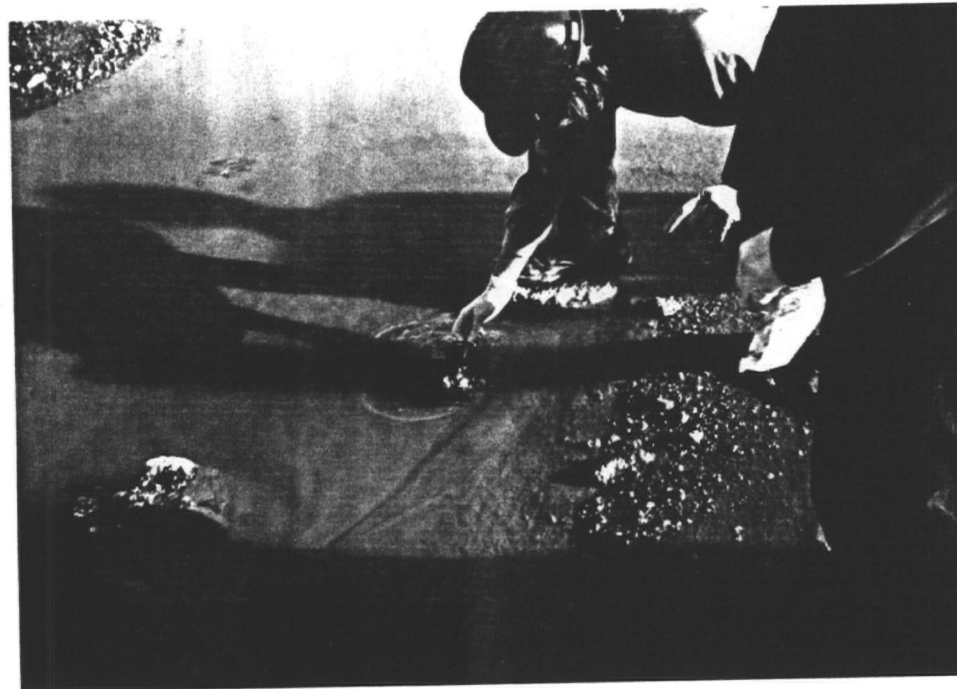
HECLA Property adjacent to OMG/Apex
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Photo Taken by: Sue Groves

Water samples collected from the standing water adjacent to the collection trench and evaporation pond. Samples were split with the HECLA personnel.



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Sediment samples collected from the standing waters adjacent to the collection trench and evaporation pond. Samples were split with the HECLA personnel.



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Water and sediment samples collected from the collection trench. Samples were split with the HECLA personnel.



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Samples collected from the area of seepage and crystallization on the northeast side of the waste pile. Small holes were dug and allowed to fill with water, water and sediment samples was collected, then the holes filled back in. Pieces of the crystalized material were collected for analysis.



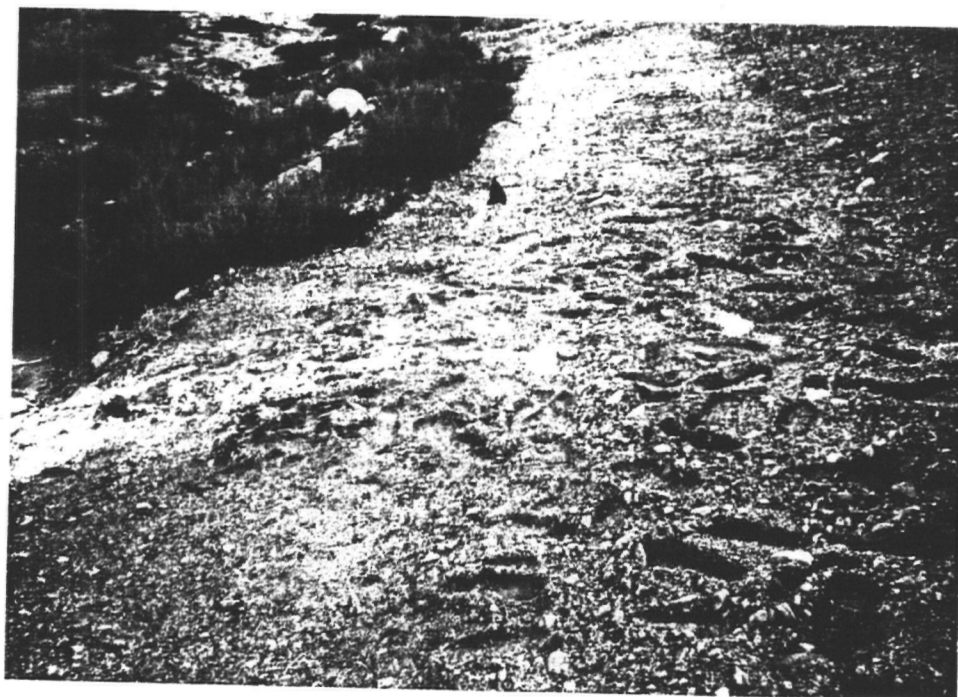
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This is the area of seepage on the northeast side of the waste pile, after sampling was completed.



HECLA Property adjacent to OMG/Apex

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The photo was taken from the top of the berm on Pond 1 at OMG. This is an overview of the collection trench and evaporation pond. There is still water adjacent to the trench and pond.

